SAFETY DATA SHEET compiled according to Regulation (EC) No. 453/2010
Compilation date: 27/01/2022 **Revision:** 4*

1. Identification of the Substance/Preparation and of the Company/Undertaking

1.1. Product identifier

Product form: Mixture
Trade name : **Hygienic Low Temp P10 Laundry Destainer**
Product group : Trade product
Product code : **KE54D4**

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Function or use category : Washing and cleaning products (including solvent based products).

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company Name: **Beaucare Medical Limited**
Hornbeam Sq. West
Hornbeam Park
Harrogate
N. Yorkshire
HG2 8PA
Tel: 01423 873666

2. Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2, H319

2.2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard Pictograms (CLP)



Signal word (CLP): Warning
Hazard statements (CLP): H319 Causes serious eye irritation.

Precautionary statements (CLP): P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

The full texts for all H- and EUH-phrases are displayed in Section 16 'Other Information'.

2.3 Other hazards

Results of PBT and vPvB assessment;
PBT: Not applicable.
vPvB: Not applicable.

3. Composition/information on ingredients

Common Name	CAS No./ EC No.	Classification Accoding to (EC) 1272/2008 (CLP)	Conc.
6-(Phthalimido) peroxyhexanoic acid	128275-31-0 410-850-8	Org. Perox. D, H242; Eye Dam. 1, H318; Aquatic Acute 1, H400	5-15%
REACH Reg. No: 01- 0000015833-68-XXXX			
1,1-Hydroxy-ethylidene diphosphonic acid disodium salt	7414-83-7 231-025-7	Acute Tox. 4, H302	1- 5%

The full texts for all H- and EUH-phrases are displayed in Section 16 'Other Information'.

Ingredients according to Regulation (EC) No 648/2004:

Oxygen-based bleaching agents	5 - 15%
Phosphonates	< 5%

4. First-aid measures

4.1 Description of first aid measures

General information:
Immediately remove any clothing contaminated by the product.
Take affected persons out of danger area and instruct to lie down.
Do not leave affected persons unsupervised.
Personal protection for the person providing first aid.

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:
Instantly wash with water and soap and rinse thoroughly.
Consult doctor in case of symptoms.

After eye contact:
Rinse opened eye for several minutes under running water.
Use eye protection. Consult doctor in case of symptoms.

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

Sickness
Gastric or intestinal trouble
Sensitisation: No known effects.

4.3 Indication of any immediate medical attention and special treatment needed

Subsequent observation for pneumonia and pulmonary oedema.

Reference to other sections
See Section 8 for information on personal protection equipment.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO_2), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
Unsuitable extinguishing agents: None

5.2 Special hazards arising from the substance or mixture:

Nitrogen oxides (NOx), Carbon monoxide (CO) and Carbon dioxide (CO_2). Oxidising by development of oxygen

5.3 Advice for firefighters:

Protective equipment: Wear self-contained breathing apparatus.
Additional information: Cool endangered containers with water spray jet. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. If without risk possible, move drums with material away from dangerous area.

6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation. Remove all ignition sources. Do not breathe vapours. Avoid contact with skin and eyes. Wear protective clothing and keep away unprotected persons. Danger of slipping on leaked/spilled product.
6.2 Environmental precautions:
Damp down gases/fumes/haze with water spray jet. Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.
6.3 Methods and material for containment and cleaning up:
Ensure adequate ventilation. Absorb with inert material (sand, diatomite). Do not use flammable materials such as sawdust e.g. Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations.
Reference to other sections
See Section 8 for information on personal protection equipment.

7. Handling and storage
7.1 Precautions for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
ATTENTION:
Contaminated organic solids (like textiles/paper/leather) may ignite without an external source of ignition (self ignition) after the water is evaporated. Wash contaminated material at once with plenty of water. Do not replace residual quantities in storage containers.
Information about protection against explosions and fires:
Protect from heat. Potentially explosive when mixed with organic substances. Substance/product can reduce the ignition temperature of flammable substances.
7.2 Conditions for safe storage, including any incompatibilities
Storage Requirements to be met by storerooms and containers:
Observe all local and national regulations for storage of water polluting products. Unsuitable material for container: Copper and copper alloys
Information about storage in one common storage facility:
Do not store together with alkalis (caustic solutions). Store away from reducing agents. Store away from flammable substances. Store away from metals.
Further information about storage conditions:
Store container in a well ventilated position. Keep container tightly sealed. Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the container exploding. Protect from contamination.
Maximum storage temperature: +50 °C
Recommended storage temperature: < +30 °C
7.3 Specific end use(s) No further relevant information available.

8. Exposure controls / Personal protection
8.1 Control parameters
Components with critical values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists that were valid during the compilation were used as basis.
8.2 Exposure controls
Personal protective equipment
Wear suitable protective clothing, gloves and eye/face protection.
General protective and hygienic measures
Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Do not carry cleaning cloths impregnated with the product in trouser pockets. Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols. Wash hands during breaks and at the end of the work. Use skin protection cream for preventive skin protection.
Breathing equipment:
Use breathing protection when aerosol or mist is formed.
Recommended filter device for short term use: Combination filter ABEK-P2
Protection of hands:
Impervious gloves. To avoid skin problems reduce the wearing of gloves to the required minimum. Check the permeability prior to each renewed use of the glove. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: Butyl rubber – BR. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material: Penetration time: ≥ 8 hours
Protective gloves should be replaced at first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Tightly sealed safety glasses

Body protection:
Protective work clothing. Body protection must be chosen depending on activity and possible exposure.

9. Physical and chemical properties

Appearance:	liquid, viscous suspension
Colour:	white
Smell:	odourless
Odour threshold:	not applicable
pH-value:	3.5 - 4.0
Change in condition	
Melting point/Melting range:	75 °C
Boiling point/Boiling range:	no data available
Flash point:	no data available
Inflammability (solid, gaseous):	Contact with combustible material may cause fire.
Ignition temperature:	no data available
Decomposition temperature:	> 80 °C
Self-inflammability:	470 °C
Danger of explosion:	Explosive when mixed with combustible material.
Critical values for explosion:	
Oxidizing properties:	none
Vapor pressure:	no data available
Density at 23 °C:	1.0 - 1.1 g/cm³
Vapour density (AIR = 1):	no data available
Evaporation rate	no data available
Solubility in / Miscibility with Water:	fully miscible
Organic solvents:	no data available
Partition coefficient (n-octanol/water):	2.2 log POW
Viscosity:	Dynamic at 20 °C: 700 mPa.s

10. Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
To avoid thermal decomposition do not overheat. Exothermic thermal decomposition temperature over 50 °C.
Sunlight

10.3 Possibility of hazardous reactions
Reacts with flammable substances. May produce violent reactions with bases and numerous organic substances including alcohols and amines. Forms flammable gases / fumes. Acts as an oxidizing agent on organic materials such as wood, paper and fats.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials:
Nitrites, Mercaptans, Strong acids, Alkaline materials, Heavy metal compounds, Reducing agents, Flammable materials, Catalysts, Organic substances; Sulfides, Carbamates, Dithiocarbamates.

10.6 Hazardous decomposition products:
Oxygen, Nitrogen oxides (NOx), Carbon monoxide (CO) and Carbon dioxide (CO_2)

11. Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

6-(Phthalimido)peroxyhexanoic acid

	Oral LD50 > 2000 mg/kg (rat)
	Dermal LD50 > 2000 mg/kg (rat)
Primary irritant effect:	
Skin:	Slightly irritating
Eye:	Strong irritant with the danger of severe eye injury.
Sensitization:	No sensitizing effect known.
Other information (about experimental toxicology):	
Mammalian Erythrocyte Micronucleus Test:	Negative
Subacute to chronic toxicity:	Oral NOEL (28 d) 100 mg/kg/d (rat)

Additional toxicological information:

The product shows the following dangers according to the calculation method of Regulation (EC) No. 1272/2008 (CLP/GHS):

Eye Dam. 1

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

According to present knowledge no CMR-effects known.

12. Ecological information

12.1 Toxicity

Aquatic toxicity:

6-(Phthalimido)peroxyhexanoic acid

EC50	≥ 100 mg/l (bacteriums)
EC50/48 h	17.6 mg/l (water flea (daphnia magna))
EC50/72 h	1.3 mg/l (green algae (Scenedesmus capricornutum))
LC50/96 h	0.4 mg/l (zebra fish (danio rerio))
NOEC/48 h	8.9 mg/l (water flea (daphnia magna))
NOEC/96 h	0.1 mg/l (zebra fish (danio rerio))

12.2 Persistence and degradability:

Easily biodegradable

Other information: BOD28/ThOD: 70% (Closed Bottle Test)

12.3 Bioaccumulative potential:

log P(o/w): 2.2

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

Chemical Oxygen Demand (COD-value): No data available

Biochemical Oxygen Demand (BOD5-value): No data available

General notes: Must not reach sewage water or drainage ditch undiluted or un-neutralized.

Water hazard class 2 (Self-assessment): Hazardous for water

12.5 Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects:	No further relevant information available.

13. Disposal considerations

13.1 Waste treatment methods

Recommendation:	Disposal must be made according to official regulations.
Waste disposal key number:	According to local/national regulations.
European waste catalogue:	Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
Packaging recommendation:	Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.
Recommended cleaning agent:	Water

14. Transport information

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

UN number:	Non-dangerous goods
UN proper shipping name:	Non-dangerous goods
Transport hazard class(es):	Non-dangerous goods
Class:-	
Packing group:	Non-dangerous goods

Environmental hazards: Non-dangerous goods
Special precautions for user: Non-dangerous goods

Transport/ Additional Information:
ADR remarks: According to Class 5.2 ADR 2.2.52.1.8 in receptacles with a maximum capacity of 2000 litres the product is not subject to ADR. Documents who confirm this (approval), were approved by the competent authority of the originating country.

15. Regulatory information
Information about limitation of use: Employment restrictions concerning young persons must be observed.
Decree to be applied in case of technical fault: Quantity limits according to "EC Seveso directive" should be observed.
Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water
Other regulations, limitations and prohibitive regulations: Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information
Usage and handling instructions are not mentioned on this Material Safety Data Sheet. The labelling of the product is indicated in Section 2.2.

The full text of the R-, H- and EUH-phrases indicated in this safety data sheet are as follows:

H242 Heating may cause a fire.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Recommended restriction of use: Professional, Industrial use

The information given has been compiled with reference to the Chemicals (Hazard Information & Packaging For Supply) Regulations (CHIP4) 2009 as amended, the Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH) Regulations, as amended, the Control of Substances Hazardous to Health Regulations (COSHH) 2002, as amended, and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. This information also harmonises the provisions and criteria for the classification and labelling of substances, mixtures and certain specific articles within the Community, taking into account the classification criteria and labelling rules of the GHS.

* Version History - Reason for Revision:
1. Add Classification Accoding to (EC) 1272/2008 (CLP)
2. Remove Classification According to Directive 67/548/EEC or 1999/45/EC. Update Supplier Address
3. Update Reach Registration Nos. in section 3.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This data are based on information submitted by pre-suppliers.